

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 1.1.A. COMPONENT LOADS FOR SPACE " -01.01_ Recep. Circ " IN ZONE " Piso-1 E.S. "						
DESIGN COOLING			DESIGN HEATING			
COOLING DATA AT Aug 1500 COOLING OA DB / WB 32,9 °C / 21,8 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	12 m ²	918	-	12 m ²	-	-
Wall Transmission	7 m ²	24	-	7 m ²	47	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	12 m ²	303	-	12 m ²	698	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	40 m ²	0	-	40 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	560 W	560	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	113 W	113	-	0	0	-
People	4	328	316	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	2246	316	-	744	0

TABLE 1.1.B. ENVELOPE LOADS FOR SPACE " -01.01_ Recep. Circ " IN ZONE " Piso-1 E.S. "						
	Area	U-Value	Shade	COOLING	COOLING	HEATING
	(m ²)	(W/(m ² -K))	Coeff.	TRANS (W)	SOLAR (W)	TRANS (W)
N EXPOSURE						
WALL	2	0,393	-	5	-	15
WINDOW 1	2	3,673	0,747	39	73	90
E EXPOSURE						
WALL	2	0,393	-	8	-	12
WINDOW 1	9	3,599	0,747	225	619	519
S EXPOSURE						
WALL	3	0,393	-	10	-	20
WINDOW 1	2	3,656	0,747	38	227	88

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 1.2.A. COMPONENT LOADS FOR SPACE "-01.10_Sala Estar" IN ZONE "Piso-1 E.S."						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Aug 1700 COOLING OA DB / WB 32,9 °C / 21,8 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C		
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	11 m ²	2880	-	11 m ²	-	-
Wall Transmission	20 m ²	55	-	20 m ²	127	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	11 m ²	239	-	11 m ²	543	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	60 m ²	0	-	60 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	783 W	783	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	323 W	323	-	0	0	-
People	23	1550	810	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	5830	810	-	670	0

TABLE 1.2.B. ENVELOPE LOADS FOR SPACE "-01.10_Sala Estar" IN ZONE "Piso-1 E.S."						
	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.	COOLING TRANS (W)	COOLING SOLAR (W)	HEATING TRANS (W)
N EXPOSURE						
WALL	14	0,393	-	36	-	89
W EXPOSURE						
WALL	6	0,393	-	19	-	39
WINDOW 1	11	3,022	0,501	239	2880	543

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 1.3.A. COMPONENT LOADS FOR SPACE "-01.11_Sala Ref.1" IN ZONE "Piso-1 E.S."						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Aug 1700			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32,9 °C / 21,8 °C			HEATING OA DB / WB 4,0 °C / 3,5 °C		
OCCUPIED T-STAT 25,0 °C			OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	5 m ²	1355	-	5 m ²	-	-
Wall Transmission	7 m ²	22	-	7 m ²	44	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	5 m ²	113	-	5 m ²	256	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	28 m ²	0	-	28 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	420 W	420	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	12	985	949	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	2995	949	-	300	0

TABLE 1.3.B. ENVELOPE LOADS FOR SPACE "-01.11_Sala Ref.1" IN ZONE "Piso-1 E.S."						
				COOLING	COOLING	HEATING
				TRANS	SOLAR	TRANS
				(W)	(W)	(W)
W EXPOSURE	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
WALL	7	0,393	-	22	-	44
WINDOW 1	5	3,031	0,501	113	1355	256

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 1.4.A. COMPONENT LOADS FOR SPACE "-01.12_Sala Ref.2" IN ZONE "Piso-1 E.S."						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Aug 1700 COOLING OA DB / WB 32,9 °C / 21,8 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C		
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	11 m ²	2710	-	11 m ²	-	-
Wall Transmission	17 m ²	64	-	17 m ²	108	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	11 m ²	225	-	11 m ²	511	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	33 m ²	0	-	33 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	497 W	496	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	12	985	949	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	4581	949	-	618	0

TABLE 1.4.B. ENVELOPE LOADS FOR SPACE "-01.12_Sala Ref.2" IN ZONE "Piso-1 E.S."						
				COOLING TRANS	COOLING SOLAR	HEATING TRANS
	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.	(W)	(W)	(W)
W EXPOSURE						
WALL	5	0,393	-	16	-	33
WINDOW 1	11	3,023	0,501	225	2710	511
S EXPOSURE						
WALL	12	0,393	-	47	-	75

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 1.5.A. COMPONENT LOADS FOR SPACE "-01.14_Cir.1" IN ZONE "Piso-1 E.S."						
DESIGN COOLING			DESIGN HEATING			
COOLING DATA AT Jan 2300 COOLING OA DB / WB 15,2 °C / 10,7 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	0 m ²	0	-	0 m ²	-	-
Wall Transmission	0 m ²	0	-	0 m ²	0	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	0 m ²	0	-	0 m ²	0	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	10 m ²	0	-	10 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	48 W	48	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	1	82	79	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	130	79	-	0	0

TABLE 1.5.B. ENVELOPE LOADS FOR SPACE "-01.14_Cir.1" IN ZONE "Piso-1 E.S."						
	Area	U-Value	Shade	COOLING TRANS	COOLING SOLAR	HEATING TRANS
	(m ²)	(W/(m ² -K))	Coeff.	(W)	(W)	(W)

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 1.6.A. COMPONENT LOADS FOR SPACE " -01.19_Sala Pessoal " IN ZONE " Piso-1 E.S. "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1800 COOLING OA DB / WB 32,6 °C / 21,6 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C		
		Sensible (W)	Latent (W)		Sensible (W)	Latent (W)
SPACE LOADS	Details			Details		
Window & Skylight Solar Loads	1 m ²	215	-	1 m ²	-	-
Wall Transmission	16 m ²	63	-	16 m ²	100	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	1 m ²	26	-	1 m ²	59	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	10 m ²	0	-	10 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	135 W	135	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	8	657	633	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1196	633	-	159	0

TABLE 1.6.B. ENVELOPE LOADS FOR SPACE " -01.19_Sala Pessoal " IN ZONE " Piso-1 E.S. "						
				COOLING	COOLING	HEATING
	Area	U-Value	Shade	TRANS	SOLAR	TRANS
	(m ²)	(W/(m ² -K))	Coeff.	(W)	(W)	(W)
W EXPOSURE						
WALL	7	0,393	-	25	-	41
WINDOW 1	1	3,674	0,747	26	215	59
S EXPOSURE						
WALL	9	0,393	-	38	-	59

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 1.7.A. COMPONENT LOADS FOR SPACE "-01.20_Dist." IN ZONE "Piso-1 E.S."						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1700 COOLING OA DB / WB 32,9 °C / 21,8 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C		
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	0 m ²	0	-	0 m ²	-	-
Wall Transmission	2 m ²	8	-	2 m ²	13	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	0 m ²	0	-	0 m ²	0	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	3 m ²	40	-	3 m ²	87	-
Floor Transmission	16 m ²	0	-	16 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	80 W	80	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	1	82	79	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	209	79	-	100	0

TABLE 1.7.B. ENVELOPE LOADS FOR SPACE "-01.20_Dist." IN ZONE "Piso-1 E.S."						
				COOLING TRANS	COOLING SOLAR	HEATING TRANS
	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.	(W)	(W)	(W)
S EXPOSURE						
WALL	2	0,393	-	8	-	13
DOOR	3	1,703	-	40	-	87

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 2.1.A. COMPONENT LOADS FOR SPACE "-01.02_Gab.Dir." IN ZONE "Piso -1 Escritorios"						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jun 1900			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32,1 °C / 21,3 °C			HEATING OA DB / WB 4,0 °C / 3,5 °C		
OCCUPIED T-STAT 25,0 °C			OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	2 m ²	76	-	2 m ²	-	-
Wall Transmission	3 m ²	10	-	3 m ²	20	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	2 m ²	31	-	2 m ²	74	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	10 m ²	0	-	10 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	121 W	121	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	163 W	163	-	0	0	-
People	2	144	120	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	545	120	-	94	0

TABLE 2.1.B. ENVELOPE LOADS FOR SPACE "-01.02_Gab.Dir." IN ZONE "Piso -1 Escritorios"						
				COOLING	COOLING	HEATING
				TRANS	SOLAR	TRANS
				(W)	(W)	(W)
N EXPOSURE	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
WALL	3	0,393	-	10	-	20
WINDOW 1	2	3,064	0,435	31	76	74

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 2.2.A. COMPONENT LOADS FOR SPACE " -01.03_Sala Reun. " IN ZONE " Piso -1 Escritorios "						
DESIGN COOLING			DESIGN HEATING			
COOLING DATA AT Jan 2300 COOLING OA DB / WB 15,2 °C / 10,7 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	0 m ²	0	-	0 m ²	-	-
Wall Transmission	0 m ²	0	-	0 m ²	0	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	0 m ²	0	-	0 m ²	0	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	10 m ²	0	-	10 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	146 W	146	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	143 W	143	-	0	0	-
People	6	431	360	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	719	360	-	0	0

TABLE 2.2.B. ENVELOPE LOADS FOR SPACE " -01.03_Sala Reun. " IN ZONE " Piso -1 Escritorios "						
	Area	U-Value	Shade	COOLING TRANS	COOLING SOLAR	HEATING TRANS
	(m ²)	(W/(m ² -K))	Coeff.	(W)	(W)	(W)

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 2.3.A. COMPONENT LOADS FOR SPACE " -01.05_Gab.Saúde " IN ZONE " Piso -1 Escritorios "						
DESIGN COOLING				DESIGN HEATING		
COOLING DATA AT Jun 1900 COOLING OA DB / WB 32,1 °C / 21,3 °C OCCUPIED T-STAT 25,0 °C				HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C		
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	3 m ²	133	-	3 m ²	-	-
Wall Transmission	4 m ²	14	-	4 m ²	27	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	3 m ²	55	-	3 m ²	129	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	12 m ²	0	-	12 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	198 W	198	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	163 W	163	-	0	0	-
People	3	215	180	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	779	180	-	156	0

TABLE 2.3.B. ENVELOPE LOADS FOR SPACE " -01.05_Gab.Saúde " IN ZONE " Piso -1 Escritorios "						
				COOLING	COOLING	HEATING
				TRANS	SOLAR	TRANS
				(W)	(W)	(W)
N EXPOSURE	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
WALL	4	0,393	-	14	-	27
WINDOW 1	3	3,049	0,435	55	133	129

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 2.4.A. COMPONENT LOADS FOR SPACE " -01.09_Gab.Adm. " IN ZONE " Piso -1 Escritorios "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 0900 COOLING OA DB / WB 29,8 °C / 19,2 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C		
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	3 m ²	718	-	3 m ²	-	-
Wall Transmission	11 m ²	32	-	11 m ²	69	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	3 m ²	50	-	3 m ²	161	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	11 m ²	0	-	11 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	134 W	134	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	163 W	163	-	0	0	-
People	2	144	120	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1241	120	-	230	0

TABLE 2.4.B. ENVELOPE LOADS FOR SPACE " -01.09_Gab.Adm. " IN ZONE " Piso -1 Escritorios "						
				COOLING	COOLING	HEATING
	Area	U-Value	Shade	TRANS	SOLAR	TRANS
	(m ²)	(W/(m ² -K))	Coeff.	(W)	(W)	(W)
N EXPOSURE						
WALL	7	0,393	-	18	-	42
E EXPOSURE						
WALL	4	0,393	-	14	-	27
WINDOW 1	3	3,042	0,435	50	718	161

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 3.1.A. COMPONENT LOADS FOR SPACE " 00.01_Cir.2 " IN ZONE " Piso 00 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Oct 1500 COOLING OA DB / WB 32,7 °C / 20,7 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C		
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	24 m ²	5281	-	24 m ²	-	-
Wall Transmission	8 m ²	22	-	8 m ²	52	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	24 m ²	533	-	24 m ²	1390	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	3 m ²	31	-	3 m ²	82	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	223 W	223	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	4	328	316	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	6419	316	-	1524	0

TABLE 3.1.B. ENVELOPE LOADS FOR SPACE " 00.01_Cir.2 " IN ZONE " Piso 00 "						
				COOLING	COOLING	HEATING
	Area	U-Value	Shade	TRANS	SOLAR	TRANS
	(m ²)	(W/(m ² -K))	Coeff.	(W)	(W)	(W)
E EXPOSURE						
WALL	1	0,393	-	2	-	5
DOOR	3	1,703	-	31	-	82
S EXPOSURE						
WALL	7	0,393	-	20	-	47
WINDOW 1	24	3,591	0,747	533	5281	1390

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 3.2.A. COMPONENT LOADS FOR SPACE " 00.02_Suite (sing) 00.01 " IN ZONE " Piso 00 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jun 1900			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32,1 °C / 21,3 °C			HEATING OA DB / WB 4,0 °C / 3,5 °C		
OCCUPIED T-STAT 25,0 °C			OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	3 m ²	154	-	3 m ²	-	-
Wall Transmission	23 m ²	97	-	23 m ²	144	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	3 m ²	55	-	3 m ²	129	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	13 m ²	-28	-	13 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	155 W	155	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	1	67	35	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	600	35	-	273	0

TABLE 3.2.B. ENVELOPE LOADS FOR SPACE " 00.02_Suite (sing) 00.01 " IN ZONE " Piso 00 "						
				COOLING	COOLING	HEATING
				TRANS	SOLAR	TRANS
				(W)	(W)	(W)
	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
N EXPOSURE						
WALL	5	0,393	-	18	-	34
WINDOW 1	3	3,049	0,501	55	154	129
E EXPOSURE						
WALL	13	0,393	-	61	-	79
S EXPOSURE						
WALL	5	0,393	-	19	-	31

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 3.3.A. COMPONENT LOADS FOR SPACE " 00.04_Suite (sing) 00.02 " IN ZONE " Piso 00 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jun 1900			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32,1 °C / 21,3 °C			HEATING OA DB / WB 4,0 °C / 3,5 °C		
OCCUPIED T-STAT 25,0 °C			OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	3 m ²	154	-	3 m ²	-	-
Wall Transmission	5 m ²	18	-	5 m ²	34	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	3 m ²	55	-	3 m ²	129	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	13 m ²	116	-	13 m ²	196	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	152 W	152	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	1	67	35	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	662	35	-	359	0

TABLE 3.3.B. ENVELOPE LOADS FOR SPACE " 00.04_Suite (sing) 00.02 " IN ZONE " Piso 00 "						
				COOLING	COOLING	HEATING
				TRANS	SOLAR	TRANS
				(W)	(W)	(W)
N EXPOSURE	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
WALL	5	0,393	-	18	-	34
WINDOW 1	3	3,049	0,501	55	154	129

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 3.4.A. COMPONENT LOADS FOR SPACE " 00.06_Suite (sing) 00.03 " IN ZONE " Piso 00 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jun 1900 COOLING OA DB / WB 32,1 °C / 21,3 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C		
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	3 m ²	154	-	3 m ²	-	-
Wall Transmission	5 m ²	18	-	5 m ²	34	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	3 m ²	55	-	3 m ²	129	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	13 m ²	-27	-	13 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	152 W	152	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	1	67	35	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	518	35	-	163	0

TABLE 3.4.B. ENVELOPE LOADS FOR SPACE " 00.06_Suite (sing) 00.03 " IN ZONE " Piso 00 "						
				COOLING	COOLING	HEATING
	Area	U-Value	Shade	TRANS	SOLAR	TRANS
	(m ²)	(W/(m ² -K))	Coeff.	(W)	(W)	(W)
N EXPOSURE						
WALL	5	0,393	-	18	-	34
WINDOW 1	3	3,049	0,501	55	154	129

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 3.5.A. COMPONENT LOADS FOR SPACE " 00.08_Suite (sing) 00.04 " IN ZONE " Piso 00 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jun 1900			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32,1 °C / 21,3 °C			HEATING OA DB / WB 4,0 °C / 3,5 °C		
OCCUPIED T-STAT 25,0 °C			OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	3 m ²	154	-	3 m ²	-	-
Wall Transmission	5 m ²	18	-	5 m ²	34	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	3 m ²	55	-	3 m ²	129	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	157 W	157	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	1	67	35	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	550	35	-	163	0

TABLE 3.5.B. ENVELOPE LOADS FOR SPACE " 00.08_Suite (sing) 00.04 " IN ZONE " Piso 00 "						
				COOLING	COOLING	HEATING
				TRANS	SOLAR	TRANS
				(W)	(W)	(W)
N EXPOSURE	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
WALL	5	0,393	-	18	-	34
WINDOW 1	3	3,049	0,501	55	154	129

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 3.6.A. COMPONENT LOADS FOR SPACE " 00.10_Suite (sing) 00.05 " IN ZONE " Piso 00 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jun 1900 COOLING OA DB / WB 32,1 °C / 21,3 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C		
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	3 m ²	154	-	3 m ²	-	-
Wall Transmission	5 m ²	18	-	5 m ²	34	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	3 m ²	55	-	3 m ²	129	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	157 W	157	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	1	67	35	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	550	35	-	163	0

TABLE 3.6.B. ENVELOPE LOADS FOR SPACE " 00.10_Suite (sing) 00.05 " IN ZONE " Piso 00 "						
				COOLING	COOLING	HEATING
	Area	U-Value	Shade	TRANS	SOLAR	TRANS
	(m ²)	(W/(m ² -K))	Coeff.	(W)	(W)	(W)
N EXPOSURE						
WALL	5	0,393	-	18	-	34
WINDOW 1	3	3,049	0,501	55	154	129

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 3.7.A. COMPONENT LOADS FOR SPACE " 00.12_Suite (doub) 00.06 " IN ZONE " Piso 00 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1800			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32,6 °C / 21,6 °C			HEATING OA DB / WB 4,0 °C / 3,5 °C		
OCCUPIED T-STAT 25,0 °C			OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	5 m ²	782	-	5 m ²	-	-
Wall Transmission	16 m ²	56	-	16 m ²	103	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	5 m ²	115	-	5 m ²	258	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	238 W	238	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	2	135	70	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1426	70	-	361	0

TABLE 3.7.B. ENVELOPE LOADS FOR SPACE " 00.12_Suite (doub) 00.06 " IN ZONE " Piso 00 "						
				COOLING	COOLING	HEATING
				TRANS	SOLAR	TRANS
				(W)	(W)	(W)
	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
N EXPOSURE						
WALL	10	0,393	-	33	-	65
WINDOW 1	3	3,049	0,501	58	113	129
W EXPOSURE						
WALL	6	0,393	-	23	-	38
WINDOW 1	3	3,049	0,501	58	669	129

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 3.8.A. COMPONENT LOADS FOR SPACE " 00.14_Suite (doub) 00.07 " IN ZONE " Piso 00 "						
DESIGN COOLING			DESIGN HEATING			
COOLING DATA AT Aug 1700 COOLING OA DB / WB 32,9 °C / 21,8 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	3 m ²	678	-	3 m ²	-	-
Wall Transmission	5 m ²	17	-	5 m ²	34	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	3 m ²	57	-	3 m ²	129	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	199 W	199	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	2	135	70	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1186	70	-	163	0

TABLE 3.8.B. ENVELOPE LOADS FOR SPACE " 00.14_Suite (doub) 00.07 " IN ZONE " Piso 00 "						
	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.	COOLING	COOLING	HEATING
				TRANS (W)	SOLAR (W)	TRANS (W)
W EXPOSURE						
WALL	5	0,393	-	17	-	34
WINDOW 1	3	3,049	0,501	57	678	129

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 3.9.A. COMPONENT LOADS FOR SPACE " 00.16_Suite (doub) 00.08 " IN ZONE " Piso 00 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Aug 1700 COOLING OA DB / WB 32,9 °C / 21,8 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C		
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	3 m ²	678	-	3 m ²	-	-
Wall Transmission	5 m ²	17	-	5 m ²	34	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	3 m ²	57	-	3 m ²	129	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	199 W	199	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	2	135	70	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1186	70	-	163	0

TABLE 3.9.B. ENVELOPE LOADS FOR SPACE " 00.16_Suite (doub) 00.08 " IN ZONE " Piso 00 "						
				COOLING	COOLING	HEATING
	Area	U-Value	Shade	TRANS	SOLAR	TRANS
	(m ²)	(W/(m ² -K))	Coeff.	(W)	(W)	(W)
W EXPOSURE						
WALL	5	0,393	-	17	-	34
WINDOW 1	3	3,049	0,501	57	678	129

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 3.10.A. COMPONENT LOADS FOR SPACE " 00.18_Suite (doub) 00.09 " IN ZONE " Piso 00 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Sep 1600			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 33,0 °C / 21,3 °C OCCUPIED T-STAT 25,0 °C			HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C		
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	5 m ²	979	-	5 m ²	-	-
Wall Transmission	17 m ²	58	-	17 m ²	105	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	5 m ²	114	-	5 m ²	258	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	239 W	239	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	2	135	70	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1625	70	-	363	0

TABLE 3.10.B. ENVELOPE LOADS FOR SPACE " 00.18_Suite (doub) 00.09 " IN ZONE " Piso 00 "						
				COOLING	COOLING	HEATING
				TRANS	SOLAR	TRANS
				(W)	(W)	(W)
S EXPOSURE	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
WALL	10	0,393	-	42	-	65
WINDOW 1	3	3,049	0,501	57	415	129
W EXPOSURE						
WALL	6	0,393	-	17	-	40
WINDOW 1	3	3,049	0,501	57	564	129

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 3.11.A. COMPONENT LOADS FOR SPACE " 00.20_Suite (sing) 00.10 " IN ZONE " Piso 00 "						
DESIGN COOLING			DESIGN HEATING			
COOLING DATA AT Oct 1300 COOLING OA DB / WB 31,0 °C / 20,1 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	3 m ²	632	-	3 m ²	-	-
Wall Transmission	5 m ²	11	-	5 m ²	34	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	3 m ²	38	-	3 m ²	129	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	156 W	156	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	1	67	35	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1005	35	-	163	0

TABLE 3.11.B. ENVELOPE LOADS FOR SPACE " 00.20_Suite (sing) 00.10 " IN ZONE " Piso 00 "						
	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.	COOLING	COOLING	HEATING
				TRANS (W)	SOLAR (W)	TRANS (W)
S EXPOSURE						
WALL	5	0,393	-	11	-	34
WINDOW 1	3	3,049	0,501	38	632	129

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 3.12.A. COMPONENT LOADS FOR SPACE " 00.22_Cir.3 " IN ZONE " Piso 00 "						
DESIGN COOLING			DESIGN HEATING			
COOLING DATA AT Jun 1900 COOLING OA DB / WB 32,1 °C / 21,3 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	24 m ²	1576	-	24 m ²	-	-
Wall Transmission	8 m ²	28	-	8 m ²	52	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	24 m ²	589	-	24 m ²	1390	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	3 m ²	35	-	3 m ²	82	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	106 W	106	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	2	164	158	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	2497	158	-	1524	0

TABLE 3.12.B. ENVELOPE LOADS FOR SPACE " 00.22_Cir.3 " IN ZONE " Piso 00 "						
	Area	U-Value	Shade	COOLING TRANS	COOLING SOLAR	HEATING TRANS
	(m ²)	(W/(m ² -K))	Coeff.	(W)	(W)	(W)
E EXPOSURE						
WALL	1	0,393	-	4	-	5
DOOR	3	1,703	-	35	-	82
N EXPOSURE						
WALL	7	0,393	-	24	-	47
WINDOW 1	24	3,591	0,747	589	1576	1390

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 3.13.A. COMPONENT LOADS FOR SPACE " 00.23_Suite (sing) 00.11 " IN ZONE " Piso 00 "						
DESIGN COOLING			DESIGN HEATING			
COOLING DATA AT Oct 1300 COOLING OA DB / WB 31,0 °C / 20,1 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	3 m ²	632	-	3 m ²	-	-
Wall Transmission	5 m ²	11	-	5 m ²	34	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	3 m ²	38	-	3 m ²	129	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	156 W	156	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	1	67	35	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1005	35	-	163	0

TABLE 3.13.B. ENVELOPE LOADS FOR SPACE " 00.23_Suite (sing) 00.11 " IN ZONE " Piso 00 "						
	Area	U-Value	Shade	COOLING TRANS	COOLING SOLAR	HEATING TRANS
	(m ²)	(W/(m ² -K))	Coeff.	(W)	(W)	(W)
S EXPOSURE						
WALL	5	0,393	-	11	-	34
WINDOW 1	3	3,049	0,501	38	632	129

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 3.14.A. COMPONENT LOADS FOR SPACE " 00.25_Suite (doub) 00.12 " IN ZONE " Piso 00 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Oct 1300			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 31,0 °C / 20,1 °C			HEATING OA DB / WB 4,0 °C / 3,5 °C		
OCCUPIED T-STAT 25,0 °C			OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	3 m ²	632	-	3 m ²	-	-
Wall Transmission	5 m ²	11	-	5 m ²	34	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	3 m ²	38	-	3 m ²	129	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	16 m ²	-35	-	16 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	193 W	193	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	2	135	70	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1075	70	-	163	0

TABLE 3.14.B. ENVELOPE LOADS FOR SPACE " 00.25_Suite (doub) 00.12 " IN ZONE " Piso 00 "						
				COOLING	COOLING	HEATING
				TRANS	SOLAR	TRANS
				(W)	(W)	(W)
S EXPOSURE	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
WALL	5	0,393	-	11	-	34
WINDOW 1	3	3,049	0,501	38	632	129

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 3.15.A. COMPONENT LOADS FOR SPACE " 00.29_Cir.4 " IN ZONE " Piso 00 "						
DESIGN COOLING			DESIGN HEATING			
COOLING DATA AT Jan 2300 COOLING OA DB / WB 15,2 °C / 10,7 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	0 m ²	0	-	0 m ²	-	-
Wall Transmission	0 m ²	0	-	0 m ²	0	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	0 m ²	0	-	0 m ²	0	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	3 m ²	-6	-	3 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	15 W	15	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	1	82	79	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	91	79	-	0	0

TABLE 3.15.B. ENVELOPE LOADS FOR SPACE " 00.29_Cir.4 " IN ZONE " Piso 00 "						
	Area	U-Value	Shade	COOLING TRANS	COOLING SOLAR	HEATING TRANS
	(m ²)	(W/(m ² -K))	Coeff.	(W)	(W)	(W)

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 3.16.A. COMPONENT LOADS FOR SPACE " 00.30_IS/Banho ajuda 0.1 " IN ZONE " Piso 00 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Sep 2100			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 30,6 °C / 19,8 °C			HEATING OA DB / WB 4,0 °C / 3,5 °C		
OCCUPIED T-STAT 25,0 °C			OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	0 m ²	0	-	0 m ²	-	-
Wall Transmission	18 m ²	90	-	18 m ²	111	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	0 m ²	0	-	0 m ²	0	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	10 m ²	-21	-	10 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	100 W	100	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	2	164	158	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	333	158	-	111	0

TABLE 3.16.B. ENVELOPE LOADS FOR SPACE " 00.30_IS/Banho ajuda 0.1 " IN ZONE " Piso 00 "						
				COOLING	COOLING	HEATING
				TRANS	SOLAR	TRANS
				(W)	(W)	(W)
E EXPOSURE	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
WALL	5	0,393	-	22	-	33
S EXPOSURE						
WALL	12	0,393	-	68	-	78

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 3.17.A. COMPONENT LOADS FOR SPACE " 00.31_Copa 0.1 " IN ZONE " Piso 00 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1100			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 30,9 °C / 20,2 °C			HEATING OA DB / WB 4,0 °C / 3,5 °C		
OCCUPIED T-STAT 25,0 °C			OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	15 m ²	2306	-	15 m ²	-	-
Wall Transmission	15 m ²	43	-	15 m ²	93	-
Roof Transmission	0 m ²	0	-	0 m ²	0	-
Window Transmission	15 m ²	308	-	15 m ²	862	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	26 m ²	-55	-	26 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	384 W	384	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	10	674	352	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	3760	352	-	955	0

TABLE 3.17.B. ENVELOPE LOADS FOR SPACE " 00.31_Copa 0.1 " IN ZONE " Piso 00 "						
				COOLING	COOLING	HEATING
				TRANS	SOLAR	TRANS
				(W)	(W)	(W)
	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
N EXPOSURE						
WALL	2	0,393	-	5	-	12
WINDOW 1	4	3,617	0,747	82	186	229
E EXPOSURE						
WALL	3	0,393	-	11	-	21
WINDOW 1	11	3,597	0,747	226	2119	633
S EXPOSURE						
WALL	10	0,393	-	27	-	60

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 4.1.A. COMPONENT LOADS FOR SPACE " 01.01_Cir.5 " IN ZONE " Piso 01 "						
DESIGN COOLING				DESIGN HEATING		
COOLING DATA AT Oct 1500 COOLING OA DB / WB 32,7 °C / 20,7 °C OCCUPIED T-STAT 25,0 °C				HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C		
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	24 m ²	4769	-	24 m ²	-	-
Wall Transmission	8 m ²	22	-	8 m ²	52	-
Roof Transmission	45 m ²	80	-	45 m ²	288	-
Window Transmission	24 m ²	533	-	24 m ²	1390	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	3 m ²	31	-	3 m ²	82	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	223 W	223	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	4	328	316	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	5987	316	-	1812	0

TABLE 4.1.B. ENVELOPE LOADS FOR SPACE " 01.01_Cir.5 " IN ZONE " Piso 01 "						
	Area	U-Value	Shade	COOLING TRANS	COOLING SOLAR	HEATING TRANS
	(m ²)	(W/(m ² -K))	Coeff.	(W)	(W)	(W)
E EXPOSURE						
WALL	1	0,393	-	2	-	5
DOOR	3	1,703	-	31	-	82
S EXPOSURE						
WALL	7	0,393	-	20	-	47
WINDOW 1	24	3,591	0,747	533	4769	1390
H EXPOSURE						
ROOF	45	0,404	-	80	-	288

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 4.2.A. COMPONENT LOADS FOR SPACE " 01.02_Suite (sing) 01.01 " IN ZONE " Piso 01 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jun 1900			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32,1 °C / 21,3 °C			HEATING OA DB / WB 4,0 °C / 3,5 °C		
OCCUPIED T-STAT 25,0 °C			OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	3 m ²	151	-	3 m ²	-	-
Wall Transmission	23 m ²	97	-	23 m ²	144	-
Roof Transmission	13 m ²	58	-	13 m ²	83	-
Window Transmission	3 m ²	55	-	3 m ²	129	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	155 W	155	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	1	67	35	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	683	35	-	356	0

TABLE 4.2.B. ENVELOPE LOADS FOR SPACE " 01.02_Suite (sing) 01.01 " IN ZONE " Piso 01 "						
				COOLING	COOLING	HEATING
				TRANS	SOLAR	TRANS
				(W)	(W)	(W)
	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
N EXPOSURE						
WALL	5	0,393	-	18	-	34
WINDOW 1	3	3,049	0,501	55	151	129
E EXPOSURE						
WALL	13	0,393	-	61	-	79
S EXPOSURE						
WALL	5	0,393	-	19	-	31
H EXPOSURE						
ROOF	13	0,404	-	58	-	83

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 4.3.A. COMPONENT LOADS FOR SPACE " 01.04_Suite (sing) 01.02 " IN ZONE " Piso 01 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jun 1900			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32,1 °C / 21,3 °C			HEATING OA DB / WB 4,0 °C / 3,5 °C		
OCCUPIED T-STAT 25,0 °C			OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	3 m ²	151	-	3 m ²	-	-
Wall Transmission	5 m ²	18	-	5 m ²	34	-
Roof Transmission	13 m ²	57	-	13 m ²	82	-
Window Transmission	3 m ²	55	-	3 m ²	129	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	152 W	152	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	1	67	35	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	600	35	-	245	0

TABLE 4.3.B. ENVELOPE LOADS FOR SPACE " 01.04_Suite (sing) 01.02 " IN ZONE " Piso 01 "						
				COOLING	COOLING	HEATING
				TRANS	SOLAR	TRANS
				(W)	(W)	(W)
N EXPOSURE	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
WALL	5	0,393	-	18	-	34
WINDOW 1	3	3,049	0,501	55	151	129
H EXPOSURE						
ROOF	13	0,404	-	57	-	82

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 4.4.A. COMPONENT LOADS FOR SPACE " 01.06_Suite (sing) 01.03 " IN ZONE " Piso 01 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jun 1900 COOLING OA DB / WB 32,1 °C / 21,3 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C		
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	3 m ²	151	-	3 m ²	-	-
Wall Transmission	5 m ²	18	-	5 m ²	34	-
Roof Transmission	13 m ²	57	-	13 m ²	82	-
Window Transmission	3 m ²	55	-	3 m ²	129	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	152 W	152	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	1	67	35	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	600	35	-	245	0

TABLE 4.4.B. ENVELOPE LOADS FOR SPACE " 01.06_Suite (sing) 01.03 " IN ZONE " Piso 01 "						
				COOLING	COOLING	HEATING
	Area	U-Value	Shade	TRANS	SOLAR	TRANS
	(m ²)	(W/(m ² -K))	Coeff.	(W)	(W)	(W)
N EXPOSURE						
WALL	5	0,393	-	18	-	34
WINDOW 1	3	3,049	0,501	55	151	129
H EXPOSURE						
ROOF	13	0,404	-	57	-	82

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 4.5.A. COMPONENT LOADS FOR SPACE " 01.08_Suite (sing) 01.04 " IN ZONE " Piso 01 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jun 1900			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32,1 °C / 21,3 °C			HEATING OA DB / WB 4,0 °C / 3,5 °C		
OCCUPIED T-STAT 25,0 °C			OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	3 m ²	151	-	3 m ²	-	-
Wall Transmission	5 m ²	18	-	5 m ²	34	-
Roof Transmission	13 m ²	59	-	13 m ²	85	-
Window Transmission	3 m ²	55	-	3 m ²	129	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	157 W	157	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	1	67	35	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	607	35	-	248	0

TABLE 4.5.B. ENVELOPE LOADS FOR SPACE " 01.08_Suite (sing) 01.04 " IN ZONE " Piso 01 "						
				COOLING	COOLING	HEATING
				TRANS	SOLAR	TRANS
				(W)	(W)	(W)
N EXPOSURE	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
WALL	5	0,393	-	18	-	34
WINDOW 1	3	3,049	0,501	55	151	129
H EXPOSURE						
ROOF	13	0,404	-	59	-	85

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 4.6.A. COMPONENT LOADS FOR SPACE " 01.10_Suite (sing) 01.05 " IN ZONE " Piso 01 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jun 1900			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32,1 °C / 21,3 °C			HEATING OA DB / WB 4,0 °C / 3,5 °C		
OCCUPIED T-STAT 25,0 °C			OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	3 m ²	151	-	3 m ²	-	-
Wall Transmission	5 m ²	18	-	5 m ²	34	-
Roof Transmission	13 m ²	59	-	13 m ²	85	-
Window Transmission	3 m ²	55	-	3 m ²	129	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	157 W	157	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	1	67	35	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	607	35	-	248	0

TABLE 4.6.B. ENVELOPE LOADS FOR SPACE " 01.10_Suite (sing) 01.05 " IN ZONE " Piso 01 "						
				COOLING	COOLING	HEATING
				TRANS	SOLAR	TRANS
				(W)	(W)	(W)
N EXPOSURE	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
WALL	5	0,393	-	18	-	34
WINDOW 1	3	3,049	0,501	55	151	129
H EXPOSURE						
ROOF	13	0,404	-	59	-	85

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 4.7.A. COMPONENT LOADS FOR SPACE " 01.12_Suite (doub) 01.06 " IN ZONE " Piso 01 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1800 COOLING OA DB / WB 32,6 °C / 21,6 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C		
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	5 m ²	768	-	5 m ²	-	-
Wall Transmission	16 m ²	56	-	16 m ²	103	-
Roof Transmission	20 m ²	94	-	20 m ²	128	-
Window Transmission	5 m ²	115	-	5 m ²	258	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	238 W	238	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	2	135	70	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1505	70	-	489	0

TABLE 4.7.B. ENVELOPE LOADS FOR SPACE " 01.12_Suite (doub) 01.06 " IN ZONE " Piso 01 "						
				COOLING	COOLING	HEATING
	Area	U-Value	Shade	TRANS	SOLAR	TRANS
	(m ²)	(W/(m ² -K))	Coeff.	(W)	(W)	(W)
N EXPOSURE						
WALL	10	0,393	-	33	-	65
WINDOW 1	3	3,049	0,501	58	111	129
W EXPOSURE						
WALL	6	0,393	-	23	-	38
WINDOW 1	3	3,049	0,501	58	656	129
H EXPOSURE						
ROOF	20	0,404	-	94	-	128

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 4.8.A. COMPONENT LOADS FOR SPACE " 01.14_Suite (doub) 01.07 " IN ZONE " Piso 01 "						
DESIGN COOLING				DESIGN HEATING		
COOLING DATA AT Jul 1800 COOLING OA DB / WB 32,6 °C / 21,6 °C OCCUPIED T-STAT 25,0 °C				HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C		
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	3 m ²	656	-	3 m ²	-	-
Wall Transmission	5 m ²	21	-	5 m ²	34	-
Roof Transmission	17 m ²	79	-	17 m ²	107	-
Window Transmission	3 m ²	58	-	3 m ²	129	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	199 W	199	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	2	135	70	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1247	70	-	270	0

TABLE 4.8.B. ENVELOPE LOADS FOR SPACE " 01.14_Suite (doub) 01.07 " IN ZONE " Piso 01 "						
				COOLING	COOLING	HEATING
				TRANS	SOLAR	TRANS
				(W)	(W)	(W)
W EXPOSURE	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
WALL	5	0,393	-	21	-	34
WINDOW 1	3	3,049	0,501	58	656	129
H EXPOSURE						
ROOF	17	0,404	-	79	-	107

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 4.9.A. COMPONENT LOADS FOR SPACE " 01.16_Suite (doub) 01.08 " IN ZONE " Piso 01 "						
DESIGN COOLING			DESIGN HEATING			
COOLING DATA AT Jul 1800 COOLING OA DB / WB 32,6 °C / 21,6 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	3 m ²	656	-	3 m ²	-	-
Wall Transmission	5 m ²	21	-	5 m ²	34	-
Roof Transmission	17 m ²	79	-	17 m ²	107	-
Window Transmission	3 m ²	58	-	3 m ²	129	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	199 W	199	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	2	135	70	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1247	70	-	270	0

TABLE 4.9.B. ENVELOPE LOADS FOR SPACE " 01.16_Suite (doub) 01.08 " IN ZONE " Piso 01 "						
			COOLING	COOLING	HEATING	
			TRANS	SOLAR	TRANS	
			(W)	(W)	(W)	
W EXPOSURE	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
WALL	5	0,393	-	21	-	34
WINDOW 1	3	3,049	0,501	58	656	129
H EXPOSURE						
ROOF	17	0,404	-	79	-	107

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 4.10.A. COMPONENT LOADS FOR SPACE " 01.18_Suite (doub) 00.09 " IN ZONE " Piso 01 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Sep 1600			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 33,0 °C / 21,3 °C OCCUPIED T-STAT 25,0 °C			HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C		
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	5 m ²	922	-	5 m ²	-	-
Wall Transmission	17 m ²	58	-	17 m ²	105	-
Roof Transmission	20 m ²	66	-	20 m ²	129	-
Window Transmission	5 m ²	114	-	5 m ²	258	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	239 W	239	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	2	135	70	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1634	70	-	491	0

TABLE 4.10.B. ENVELOPE LOADS FOR SPACE " 01.18_Suite (doub) 00.09 " IN ZONE " Piso 01 "						
				COOLING	COOLING	HEATING
				TRANS	SOLAR	TRANS
				(W)	(W)	(W)
	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
S EXPOSURE						
WALL	10	0,393	-	42	-	65
WINDOW 1	3	3,049	0,501	57	405	129
W EXPOSURE						
WALL	6	0,393	-	17	-	40
WINDOW 1	3	3,049	0,501	57	517	129
H EXPOSURE						
ROOF	20	0,404	-	66	-	129

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 4.11.A. COMPONENT LOADS FOR SPACE " 01.20_Suite (sing) 01.10 " IN ZONE " Piso 01 "						
DESIGN COOLING			DESIGN HEATING			
COOLING DATA AT Oct 1300 COOLING OA DB / WB 31,0 °C / 20,1 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	3 m ²	583	-	3 m ²	-	-
Wall Transmission	5 m ²	11	-	5 m ²	34	-
Roof Transmission	13 m ²	24	-	13 m ²	84	-
Window Transmission	3 m ²	38	-	3 m ²	129	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	156 W	156	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	1	67	35	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	980	35	-	247	0

TABLE 4.11.B. ENVELOPE LOADS FOR SPACE " 01.20_Suite (sing) 01.10 " IN ZONE " Piso 01 "						
			COOLING	COOLING	HEATING	
			TRANS	SOLAR	TRANS	
			(W)	(W)	(W)	
S EXPOSURE	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
WALL	5	0,393	-	11	-	34
WINDOW 1	3	3,049	0,501	38	583	129
H EXPOSURE						
ROOF	13	0,404	-	24	-	84

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 4.12.A. COMPONENT LOADS FOR SPACE " 01.22_Cir.6 " IN ZONE " Piso 01 "						
DESIGN COOLING			DESIGN HEATING			
COOLING DATA AT Jun 1900 COOLING OA DB / WB 32,1 °C / 21,3 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	24 m ²	1496	-	24 m ²	-	-
Wall Transmission	8 m ²	28	-	8 m ²	52	-
Roof Transmission	21 m ²	96	-	21 m ²	137	-
Window Transmission	24 m ²	589	-	24 m ²	1390	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	3 m ²	35	-	3 m ²	82	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	106 W	106	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	2	164	158	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	2513	158	-	1661	0

TABLE 4.12.B. ENVELOPE LOADS FOR SPACE " 01.22_Cir.6 " IN ZONE " Piso 01 "						
	Area	U-Value	Shade	COOLING TRANS	COOLING SOLAR	HEATING TRANS
	(m ²)	(W/(m ² -K))	Coeff.	(W)	(W)	(W)
E EXPOSURE						
WALL	1	0,393	-	4	-	5
DOOR	3	1,703	-	35	-	82
N EXPOSURE						
WALL	7	0,393	-	24	-	47
WINDOW 1	24	3,591	0,747	589	1496	1390
H EXPOSURE						
ROOF	21	0,404	-	96	-	137

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 4.13.A. COMPONENT LOADS FOR SPACE " 01.23_Suite (sing) 00.11 " IN ZONE " Piso 01 "						
DESIGN COOLING				DESIGN HEATING		
COOLING DATA AT Oct 1300 COOLING OA DB / WB 31,0 °C / 20,1 °C OCCUPIED T-STAT 25,0 °C				HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C		
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	3 m ²	583	-	3 m ²	-	-
Wall Transmission	5 m ²	11	-	5 m ²	34	-
Roof Transmission	13 m ²	24	-	13 m ²	84	-
Window Transmission	3 m ²	38	-	3 m ²	129	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	156 W	156	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	1	67	35	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	980	35	-	247	0

TABLE 4.13.B. ENVELOPE LOADS FOR SPACE " 01.23_Suite (sing) 00.11 " IN ZONE " Piso 01 "						
				COOLING	COOLING	HEATING
				TRANS	SOLAR	TRANS
				(W)	(W)	(W)
				Area	U-Value	Shade
				(m ²)	(W/(m ² -K))	Coeff.
S EXPOSURE						
WALL				5	0,393	-
WINDOW 1				3	3,049	0,501
H EXPOSURE						
ROOF				13	0,404	-

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 4.14.A. COMPONENT LOADS FOR SPACE " 01.25_Suite (doub) 00.12 " IN ZONE " Piso 01 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Oct 1300			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 31,0 °C / 20,1 °C OCCUPIED T-STAT 25,0 °C			HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C		
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	3 m ²	583	-	3 m ²	-	-
Wall Transmission	5 m ²	11	-	5 m ²	34	-
Roof Transmission	16 m ²	30	-	16 m ²	104	-
Window Transmission	3 m ²	38	-	3 m ²	129	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	193 W	193	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	2	135	70	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1090	70	-	267	0

TABLE 4.14.B. ENVELOPE LOADS FOR SPACE " 01.25_Suite (doub) 00.12 " IN ZONE " Piso 01 "						
				COOLING	COOLING	HEATING
				TRANS	SOLAR	TRANS
				(W)	(W)	(W)
S EXPOSURE	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
WALL	5	0,393	-	11	-	34
WINDOW 1	3	3,049	0,501	38	583	129
H EXPOSURE						
ROOF	16	0,404	-	30	-	104

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 4.15.A. COMPONENT LOADS FOR SPACE " 01.29_Cir.7 " IN ZONE " Piso 01 "						
DESIGN COOLING			DESIGN HEATING			
COOLING DATA AT Jul 0400 COOLING OA DB / WB 29,4 °C / 18,8 °C OCCUPIED T-STAT 25,0 °C			HEATING DATA AT DES HTG HEATING OA DB / WB 4,0 °C / 3,5 °C OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	0 m ²	0	-	0 m ²	-	-
Wall Transmission	0 m ²	0	-	0 m ²	0	-
Roof Transmission	3 m ²	16	-	3 m ²	19	-
Window Transmission	0 m ²	0	-	0 m ²	0	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	15 W	15	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	1	82	79	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	113	79	-	19	0

TABLE 4.15.B. ENVELOPE LOADS FOR SPACE " 01.29_Cir.7 " IN ZONE " Piso 01 "						
			COOLING	COOLING	HEATING	
			TRANS	SOLAR	TRANS	
			(W)	(W)	(W)	
H EXPOSURE	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
ROOF	3	0,404	-	16	-	19

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 4.16.A. COMPONENT LOADS FOR SPACE " 01.30_IS/Banho ajuda 1.1 " IN ZONE " Piso 01 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 2200			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 30,8 °C / 20,1 °C			HEATING OA DB / WB 4,0 °C / 3,5 °C		
OCCUPIED T-STAT 25,0 °C			OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	0 m ²	0	-	0 m ²	-	-
Wall Transmission	18 m ²	82	-	18 m ²	111	-
Roof Transmission	10 m ²	49	-	10 m ²	65	-
Window Transmission	0 m ²	0	-	0 m ²	0	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	100 W	100	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	2	164	158	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	395	158	-	176	0

TABLE 4.16.B. ENVELOPE LOADS FOR SPACE " 01.30_IS/Banho ajuda 1.1 " IN ZONE " Piso 01 "						
				COOLING	COOLING	HEATING
				TRANS	SOLAR	TRANS
				(W)	(W)	(W)
	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
E EXPOSURE						
WALL	5	0,393	-	26	-	33
S EXPOSURE						
WALL	12	0,393	-	56	-	78
H EXPOSURE						
ROOF	10	0,404	-	49	-	65

Space Design Load Summary for Sistema Geral

Project Name: TFM SISTEMAS DE AQUECIMENTO
Prepared by: ISEL

10-16-2013
11:25

TABLE 4.17.A. COMPONENT LOADS FOR SPACE " 01.31_Copa 1.1 " IN ZONE " Piso 01 "						
	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1500			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 32,9 °C / 21,8 °C			HEATING OA DB / WB 4,0 °C / 3,5 °C		
OCCUPIED T-STAT 25,0 °C			OCCUPIED T-STAT 20,0 °C			
SPACE LOADS	Details	Sensible (W)	Latent (W)	Details	Sensible (W)	Latent (W)
Window & Skylight Solar Loads	16 m ²	1170	-	16 m ²	-	-
Wall Transmission	7 m ²	26	-	7 m ²	45	-
Roof Transmission	18 m ²	84	-	18 m ²	114	-
Window Transmission	16 m ²	417	-	16 m ²	927	-
Skylight Transmission	0 m ²	0	-	0 m ²	0	-
Door Loads	0 m ²	0	-	0 m ²	0	-
Floor Transmission	0 m ²	0	-	0 m ²	0	-
Partitions	0 m ²	0	-	0 m ²	0	-
Ceiling	0 m ²	0	-	0 m ²	0	-
Overhead Lighting	266 W	265	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	100 W	100	-	0	0	-
People	7	472	246	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	2534	246	-	1087	0

TABLE 4.17.B. ENVELOPE LOADS FOR SPACE " 01.31_Copa 1.1 " IN ZONE " Piso 01 "						
				COOLING	COOLING	HEATING
				TRANS	SOLAR	TRANS
				(W)	(W)	(W)
N EXPOSURE	Area (m ²)	U-Value (W/(m ² -K))	Shade Coeff.			
WALL	2	0,393	-	6	-	12
WINDOW 1	4	3,617	0,747	103	211	229
E EXPOSURE						
WALL	2	0,393	-	11	-	14
WINDOW 1	6	3,608	0,747	143	567	318
S EXPOSURE						
WALL	3	0,393	-	9	-	18
WINDOW 1	7	3,604	0,747	171	392	381
H EXPOSURE						
ROOF	18	0,404	-	84	-	114